



## Simplifying Fractions

FREE Worksheet - 3

Time: 15 minutes

(Detailed solutions at the end)

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1. Find the missing number:

$$\frac{8}{10} = \frac{4}{?}$$

Answer: \_\_\_\_\_

2. Is  $\frac{8}{12}$  the simplest fraction of  $\frac{4}{6}$ ?

Answer: \_\_\_\_\_

3. Write the simplest equivalent fraction of  $\frac{5}{10}$ .

Answer: \_\_\_\_\_

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4. The simplest form of  $\frac{3}{9}$  is:

Answer: \_\_\_\_\_

5. Find the missing number:

$$\frac{4}{12} = \frac{?}{3}$$

Answer: \_\_\_\_\_

6. Write  $\frac{5}{10}$  in its simplest form.

Answer: \_\_\_\_\_

7. The simplest equivalent fraction of  $\frac{8}{10}$  is:

Answer: \_\_\_\_\_





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## SOLUTIONS

### Problem 1

\_\_\_\_\_

We divide the numerator by 2 to get 4.

So, we must also divide the denominator by 2 to get an equivalent fraction.

$$\frac{8 \div 2}{10 \div 2} = \frac{4}{5}$$

\_\_\_\_\_

So, the missing number is 5.

### Problem 2

\_\_\_\_\_

We use division to find a fraction in its simplest form.

$$\frac{8 \div 2}{12 \div 2} = \frac{4 \div 2}{6 \div 2} = \frac{2}{3}$$

The simplest equivalent fraction of  $\frac{8}{12}$  and  $\frac{4}{6}$  is  $\frac{2}{3}$ .



**Problem 3**

Both the numerator and the denominator can be divided by 5 to get the simplest form of the given fraction.

$$\frac{5 \div 5}{10 \div 5} = \frac{1}{2}$$

**Problem 4**

We use division to find a fraction in its simplest form.

$$\frac{3 \div 3}{6 \div 3} = \frac{1}{2}$$

The simplest equivalent fraction of  $\frac{3}{6}$  is  $\frac{1}{2}$ .

**Problem 5**

The denominator is divided by 4 to simplify it.

So, we must also divide the numerator by 4 to get a simplified equivalent fraction.

$$\frac{4 \div 4}{12 \div 4} = \frac{1}{3}$$

So, the missing numerator is 1.



**Problem 6**

Both the numerator and the denominator can be divided by 5 to get the simplest form of the given fraction.

$$\frac{5 \div 5}{10 \div 5} = \frac{1}{2}$$

**Problem 7**

We use division to find a fraction in its simplest form.

$$\frac{8 \div 2}{10 \div 2} = \frac{4}{5}$$

The simplest equivalent fraction of  $\frac{8}{10}$  is  $\frac{4}{5}$ .